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# Highly Selective Production of Olefins from Syngas with Modified ASF Distribution Model

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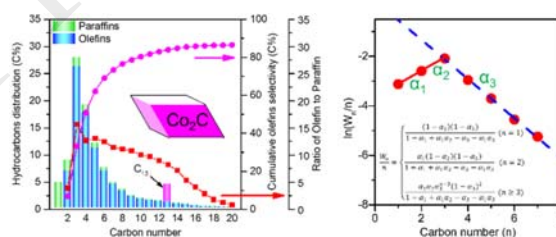
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## Graphical Abstract



Co<sub>2</sub>C nanoprisms benefited for highly selective production of olefins from syngas with modified ASF distribution model.

## Highlights

- 1. A negative deviation of CH<sub>4</sub> selectivity from the ideal ASF model was found over Co<sub>2</sub>C nanoprisms.
- 2. The products featured a very narrow carbon distribution.
- 3. About 91wt% of the hydrocarbons were in the range of C<sub>2</sub> to C<sub>12</sub>.

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